

DEPARTMENT OF ENVIRONMENTAL SERVICES
WASTE MANAGEMENT DIVISION
SOLID WASTE COMPLIANCE SECTION

UNLINED SOLID WASTE LANDFILL INSPECTION REPORT

DES-50187-002

Facility Name: Sanco Landfill Permit #: DES-SW-89-009

Facility Location: Trudeau Road

Date of Inspection: 8/24/90 Time: 9:30 - 2:30

Nature of Inspection: Routine Inspection Re-Inspection

Requested Inspection Complaint

Complaint on secp

I. Administrative Order(s)

A. Administrative Order outstanding from NHDES to landfill permit holder.

YES NO N/A

B. Identification number(s) of Administrative Order(s): _____

C. Date(s) Administrative Order(s) issued: _____

D. Violations noted: _____

E. Status of compliance with Administrative Order(s): _____

II. FACILITY RECORDS

* All wastes need prior approval before allow in.

A. Weekly Waste Volume Accepted: 275 tons/clay

1. Types of Waste Accepted: mostly municipalities solid waste

2. Gate Rule. Does the facility have a scale? YES NO N/A

\$ 50.00/TON; waste that has recycled material taken out \$45.00/Ton.

3. What industries use the landfill? Hitchner furniture; Aluminum hydroxide sludge casting from a Franklin Foundry after approved E.P. Fox best some wood ash.

4. What volume of waste comes from out-of-state? 90% in state 10% out of state

B. Daily operator's report kept on file by permit holder.

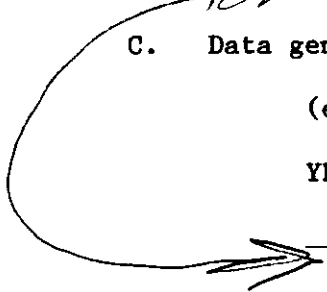
YES NO N/A

on-site records were not checked

C. Data generated by on-site lab equipment kept on file by permit holder?

(e.g. pH, Specific Conductivity, Rainfall - if applicable).

YES NO N/A



ENVIRONMENTAL PERFORMANCE STANDARDS

A. Contamination of Surface Waters (per He-P 1901.05(a)(2)a.; and Sections 402 and 208 of the Federal Clean Water Act).

Complaint on seep.

1. Observed leachate seeps: YES NO N/A

large Red, orange seeps along a steep embankment some 750+ feet east of the land fill

2. Observed discoloration of surface waters (streams and ponds):

YES NO N/A

From the start of the seep to the Ammonoosuc river,

3. Date of last round of surface water station sampling:

5/31/90

4. Substances detected in surface water samples that exceed water quality standards, and identification of stations where samples were collected:

	<i>result</i>	<i>Limit</i>
<i>Iron</i>	<i>36 mg/L</i>	<i>1.3 mg/L</i>
<i>Mang.</i>	<i>2.9 mg/L</i>	<i>1.05 mg/L</i>
<i>To/none detected at 94/L</i>		

groundwater permit # GWP 8707-01B.

B. Contamination of Groundwater (per He-P 1901.05(a)(2)b., He-P 1901.05(b)(1)b., and WS 410).

1. Date of completion of Hydrogeological Investigation or status of ongoing hydrogeological investigation:

(Complete) ongoing testing of wells and seeps

2. Date of last round of groundwater monitoring well sampling and analysis: 5/31/90

3. Substances detected in monitoring wells that exceed water quality standards, and identification of wells where samples were collected: iron, manganese in wells B-101, B-1025, B-102D, B-103, B-103D, VOC detected in numerous wells.

4. Monitoring Wells. ~~Not~~ not all wells were checked

- a) Casing integrity: OK
- b) Riser pipe integrity: OK
- c) Locks: OK
- d) Well settlement: OK
- e) Relationship of waste handling areas to well locations: OK

C. Contamination of Air (per RSA 125-C:14, Air 1001 et seq.).

1. Valid permit to burn brush less than 5" in diameter, leaves and clean lumber: N/A

2. Date of permit expiration: N/A

3. Improper materials in burn pile: N/A

II. SAFETY STANDARDS

A. Landfill Gas Monitoring Program (per He-P 1901.05(a)(3)a.).

Monitoring Program was not checked

1. Date of approval of landfill gas monitoring program or status of program development:

2. Date of last round of landfill gas monitoring:

3. Identification of monitoring point where gas concentrations exceed regulatory limits, and levels recorded:

For Safety, the trucks where leachate is recycled, and the leachate storage tanks should be checked and the gas levels recorded.

B. Fire Protection (per He-P 1901.05(a)(3)b. and He-P 1901.05(b)(1)f.).

1. Approved fire protection plan on file with NHDES.

YES _____ NO _____ N/A _____
not checked.

2. 25' fire break around landfilled area and storage areas for flammable waste (e.g. tires, waste oil, demolition debris).

YES NO _____ N/A _____
small tire pile

3. Attendant on duty while open-burning of brush is ongoing.

YES _____ NO _____ N/A

4. Telephone, radio, or other communication device on-site to contact local fire department.

YES NO _____ N/A _____

Telephone + Radio

C. Equipment Operator Safety: Working face of the landfill not to exceed 3 horizontal: 1 vertical (per He-P 1901.05(a)(3)).

YES _____ NO _____ N/A _____

The working face of the landfill is good. The storage of excavated material is very steep, causing erosion problems.

III. DESIGN STANDARDS

A. Closure Plan: Date closure plan approved by NHDES or status of ongoing engineering (per 1901.04(f)(1)b.).

** Closure plan calls for the old landfill to be moved into the double lined landfill*

B. Are property boundaries and edges of landfilled area flagged in the field and shown on site map available at the facility (per 1901.04(c))?

YES NO _____ N/A _____

Not all areas were checked.

C. Surface Water Diverted Around Landfill Area(per 1901.05(b)(1)a.).

1. Are contours of landfilled area properly maintained?

YES NO N/A

erosion problems on old landfill and excavated piles

2. Are swales properly located and maintained?

YES NO N/A

D. Site Access Control (Vehicles), (per He-P 1901.05(b)(1)c.

and He-P 1901.05(b)(1)(d)).

1. Access gate: YES NO N/A

a. integrity: *good*

b. lock: _____

2. Access road: YES NO N/A

a. erosion, rutting, potholes, mud, localized depressions: _____

OK

b. traffic control: _____

OK

** water from detention pond is used for dust control.*

3. Fence, natural terrain, or man-made barrier present to control vehicle access on to site: Fence and natural Terrain,

E. Signs Posted Indicating: (per He-P 1901.05(b)(1)g.).

1. Name of facility. YES NO N/A

2. Emergency telephone numbers. YES NO N/A

3. Restricted materials. YES NO N/A

4. Penalty for unlawful dumping. YES NO N/A

didn't check

F. WASTE HANDLING AREAS PROVIDED (per He-P 1901.05(b)(1)i.).

1. Stumps. not accepted

2. Metal goods. in Transfer station

a. properly separated by type: _____

b. on-site or off-site disposal: _____

c. pile size and management: _____

3. Demolition/construction debris.

a. on-site or off-site disposal:

YES _____ NO _____ N/A _____

b. pile size and management.

4. Brush pile size and management.

N/A

5. Compost pile size and management.

N/A

F. Special Waste (per RSA 149-M:13 and RSA 147-A:13.).

1. Asbestos: ~~*~~ The permit allows asbestos, however Mr. Roy Sporn says they do not accept asbestos.

2. Anti-freeze: *not accepted*

3. Wet cell batteries: *not accepted.*

4. Used oil: Limited Amount at
the transfer station, used in
waste oil burner in the
maintenance building

5. Septage and sludge: _____
not accepted

6. Ash from residences: _____
not accepted

7. Other: _____

H. did not inspect recycling/transfer area.
RECYCLING AREA (per He-P 1901.05(b)(2)i.). inspected by the Town.

1. Properly managed: _____

2. Does (not) interfere with landfill operation: _____

3. Does (not) create unsightly conditions or harbor vectors _____

5. The total cell depth shall not exceed 8 feet in depth before daily cover is placed on top (per He-P 1901.05(2)a.).

OK ?

6. Adequate quantities of cover material shall be made available for covering disposed solid waste (per He-P 1901.05(2)(b)(1)e.).

good

7. Stockpiled cover material shall be protected from freezing to allow for proper winter operation (per He-P 1901.05(2)(b)(2)e.).

good

8. Daily cover shall consist of 6 inches of soil or other material previously approved by the NHDES (per He-P 1901.05(2)(b)(2)b.).

good

9. If the landfill is inactive for 30 or more days the operator shall place an additional 6" (for a total of 12") of cover over refuse. The slope of the "intermediate" cover layer should not exceed 15% nor be less than 2% (per He-P 1901.05(2)(b)(2)c.).

EROSION problems

~~Summary of compliance of landfilling operations with applicable rules.~~

Leachate summary

- ① 30,000 gallons taken recently to Bristol Con.
- ② no pond on the liner on the old landfill and Phase I
Not sure how head is measured in Phase II
- ③ Phase II primary has a leak of 12 gallons per hour into the secondary.
- ④ The unused Ash cell also has a leak.

I. LANDFILLING OPERATION.

1. Unloading of solid waste confined to the smallest practical area; exposed waste on working face kept to a minimum (per He-P 1901.05(2)a.). YES NO

good

2. Spread refuse layers not to exceed 2 feet before compaction (per He-P 1901.05(2)a.). YES NO

good

3. Equipment adequate to spread and compact waste and cover materials (per He-P 1901.05(2)a.) YES NO

a. type of equipment: *Cat Compactor, D9 Dozer, front end loader, watering truck, etc*

b. equipment operational/appropriate: *yes*

c. availability of auxiliary equipment: *didn't ask,*

4. Each layer of refuse shall be compacted with at least 3 passes of equipment prior to spreading additional layers (per He-P 1901.05(2)a.). *good*

5. The total cell depth shall not exceed 8 feet in depth before daily cover is placed on top (per He-P 1901.05(2)a.).

OK ?

6. Adequate quantities of cover material shall be made available for covering disposed solid waste (per He-P 1901.05(2)(b)(1)e.).

good

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EROSION problems

~~Summary of compliance of landfilling operations with applicable rules.~~

Leachate summary

① 50,000 gallons taken recently to Bristol Conv.

② no head on the liner on the old landfill and Phase I
Not sure how head is measured in Phase II

③ Phase II primary has a leak of 1-2 gallons per hour into the secondary.

④ The unused 195h cell also has a leak.

IV. GENERAL SITE CONDITIONS.

A. Scavenging Animals (per He-P 1901.05(a)(1)). NONE SEEN
SOME FLIES IN THE TRENCH
AREA

B. Windblown Litter (per He-P 1901.05(b)(2)j.). NONE SEEN

C. Landfill Site Screened From Roads And Residences (per He-P
1901.05(b)(1)h.). OK, SOME CAMPS
ALONG TRUDEAU ROAD.

V. OPERATOR CERTIFICATION.

Ron Cook has been
Certified,

Roy Lamborn will be attending
next certification, (Sept 1970)

VI. COMPLIANCE WITH CONDITIONS SPECIFIC TO THE FACILITY'S PERMIT.

VII. SUMMARY OF INSPECTION.

The facility does a very good job with the disposal operation, such as limiting the working face, compaction, daily cover and litter control.

There are erosion/drainage problems with the old landfill and the stored excavated material.

The Phase II primary liner has a pin hole or holes leaking into the secondary at 1-2 gallons/hour. Roy Sanborn has indicated that a consultant firm will be doing tests to locate the leak and repairs will be made.

The WMD has concerns about recycling of leachate, especially when the primary liner is leaking.

See the attached sheets for conductivity readings at various locations and the compliance with specific conditions of Panco Inc. permit.

VII. SKETCH OF FACILITY LAYOUT (AND PHOTOGRAPHS).

Theodore Clark

Inspector's Name

8/24/90

Date of Inspection